

At page 23, line 20, after the phrase "activity of" please delete "PANEC-1or" and replace it with --PANEC-1 or--.

At page 24, line 17, after the phrase "target cell," please insert --for example, a--, and after the phrase "monocyte," please delete "etc.".

At page 26, line 17, after the phrase "PANEC-2 with" please delete "125I" and replace it with --¹²⁵I--.

Please delete pages 29-32 of the initially filed Sequence Listing and replace it with pages 29-36 of the Substitute Sequence Listing.

Please change the pages of the Claims from pages 33-34 to pages 36-37.

IN THE CLAIMS:

Please cancel Claims 4, 7-12, 16, 19 and 20, without prejudice.

Please amend Claim 1 as follows:

1. (Once amended) An [A] isolated polynucleotide [recombinant DNA] molecule] comprising [pancreas expressed chemokine (panec-1) gene, whose nucleotide] a nucleic acid sequence encoding the polypeptide having the sequence as [is] shown in SEQ ID NO:2 [1].

Please amend Claim 5 as follows:

5. (Once amended) An expression vector comprising the polynucleotide [DNA molecule] of Claim 1.

Please amend Claim 13 as follows:

13. (Once amended) An [A] isolated polynucleotide [recombinant DNA] molecule] comprising [pancreas expressed chemokine (panec-2) gene, whose

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nucleotide] a nucleic acid sequence encoding the polypeptide having the sequence as [is] shown in SEQ ID NO:4 [3].

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17. (Once amended) An expression vector comprising the polynucleotide [DNA molecule] of Claim 13.

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Please add new Claims 25 and 35 as follows:

-- 25. The polynucleotide sequence of Claim 1 comprising a nucleic acid sequence as shown in SEQ ID NO:1.

26. The polynucleotide sequence of Claim 13 comprising a nucleic acid sequence as shown in SEQ ID NO:3.

27. A diagnostic test for the detection of nucleic acid sequences encoding PANEC-1 in a biological sample, comprising the steps of:

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a) combining the biological sample with a polynucleotide which comprises the nucleic acid sequence of SEQ ID NO:1, or a fragment thereof, under conditions suitable for the formation of a nucleic acid hybridization complex between the nucleic acid sequence of SEQ ID NO:1 and a complementary nucleic acid sequence in said sample,

b) detecting said hybridization complex, and

c) comparing the amount of said hybridization complex with a standard wherein the presence of an abnormal level of said hybridization complex correlates positively with a condition associated with inflammation.

28. A diagnostic test for the detection of nucleic acid sequences encoding PANEC-2 in a biological sample, comprising the steps of:

a) combining the biological sample with a polynucleotide which comprises

the nucleic acid sequence of SEQ ID NO:3, or a fragment thereof, under conditions suitable for the formation of a nucleic acid hybridization complex between the nucleic acid sequence of SEQ ID NO:3 and a complementary nucleic acid sequence in said sample,

b) detecting said hybridization complex, and

c) comparing the amount of said hybridization complex with a standard wherein the presence of an abnormal level of said hybridization complex correlates positively with a condition associated with inflammation.

29. The diagnostic test of Claim 27 wherein said condition associated with inflammation occurs in the pancreas.

30. The diagnostic test of Claim 28 wherein said condition associated with inflammation occurs in the pancreas.

31. A diagnostic test for the detection of nucleic acid sequences encoding PANEC-1 in a biological sample, comprising the steps of:

a) combining the biological sample with polymerase chain reaction primers under conditions suitable for nucleic acid amplification, wherein said primers comprise fragments of the nucleic acid sequence of SEQ ID NO:1,

c) detecting amplified nucleotide sequences, and

d) comparing the amount of amplified nucleotide sequences in said biological sample with a standard thereby determining whether the amount of said nucleotide sequence varies from said standard, wherein the presence of an abnormal level of said nucleotide sequence correlates positively with a condition associated with inflammation.

32. A diagnostic test for the detection of nucleic acid sequences encoding PANEC-2 in a biological sample, comprising the steps of:

a) combining the biological sample with polymerase chain reaction primers under conditions suitable for nucleic acid amplification, wherein said primers comprise fragments of the nucleic acid sequence of SEQ ID NO:3,

c) detecting amplified nucleotide sequences, and

d) comparing the amount of amplified nucleotide sequences in said biological sample with a standard thereby determining whether the amount of said nucleotide sequence varies from said standard, wherein the presence of an abnormal level of said nucleotide sequence correlates positively with a condition associated with inflammation.

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33. The diagnostic test of Claim 32 wherein said fragment of the nucleic acid sequence of SEQ ID NO:3 is from 15 to 20 nucleotides selected from the nucleic acid sequence encoding amino acid residues 93 to 128 of Figure 2.

34. An isolated polypeptide having the amino acid sequence as shown in SEQ ID NO:2 beginning at amino acid residue 24 (G).

35. An isolated polypeptide having the amino acid sequence as shown in SEQ ID NO:4 beginning at amino acid residue 21 (T).

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